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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/773,211	02/09/2004	Akira Yamaguchi	Q78009	1097
23373 SLICUDITE M	3373 7590 02/01/2008 SUGHRUE MION, PLLC		EXAMINER	
2100 PENNSYLVANIA AVENUE, N.W.			CALEY, MICHAEL H	
SUITE 800 WASHINGTO	ON DC 20037		ART UNIT	PAPER NUMBER
	,		2871	
·			MAIL DATE	DELIVERY MODE
•			02/01/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)				
a eri		10/773,211	YAMAGUCHI ET AL.				
Office Ad	tion Summary	Examiner	Art Unit				
		Michael:H. Caley	2871				
The MAILING	DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply							
	ATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, INGER, FROM THE MAILING DATE OF THIS COMMUNICATION.						
<ul> <li>Extensions of time may be</li> </ul>	available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed						
<ul> <li>If NO period for reply is so</li> </ul>	roin the mailing date of this communication:  Specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.						
<ul> <li>Failure to reply within the same and reply received by the</li> </ul>	set or extended period for reply will, by statute, Office later than three months after the mailing	dause the application to become ABANDONEI date of this communication, even if timely filed,	O (35 U.S.C. § 133).				
earned patent term adjust	hent.' See 37 CFR 1.704(b).	ŧ					
Status							
1) Responsive to	communication(s) filed on		•				
2a) ☐ This action is I		action is non-final.					
3) ☐ Since this app	ication is in condition for allowance except for formal matters, prosecution as to the merits is						
		x parte Quayle, 1935 C.D. 11, 45					
Disposition of Claims							
4)⊠ Claim(s) <u>1-13</u>	s/are pending in the application.		• •				
4a) Of the abo	ve claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>12 ar</u>	d 13 is/are allowed.		•				
6)⊠ Claim(s) <u>1-4 a</u>	nd 6-11 is/are rejected.						
7)	re objected to						
8) Claim(s)	are subject to restriction and/or	election requirement.					
Application Papers		•					
	n is objected to by the Examiner						
10)⊠ The drawing(s)	filed on <u>09 February 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may n	not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement dr	eplacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or de	claration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C	6119	,					
		,					
1 (1 7 ), (1		priority under 35 U.S.C. § 119(a)	-(d) or (f).				
	me * c)☐ None of:		<i>y</i>				
12 . t . t <sub>1</sub> 1	copies of the priority documents have been received.						
	d copies of the priority documents have been received in Application No.						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
		•	·				
Attachment(s)							
1) Notice of References C	ted (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's	Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	tę				
3) Information Disclosure	statement(s) (PTO/SB/08)	5) Notice of Informal Pa	atent Application				
Paper No(s)/Mail Date 3	<u> </u>	, 6)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-3, 6, 7, 10, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura (U.S. Patent Application Publication No. 2002/0085284 "Nakamura '284") in view of Nakamura (U.S. Patent Application Publication No. 2001/0035929 "Nakamura '929") and Shimodaira (U.S. Patent No. 6,818,263).

Regarding claims 1-3, 6, and 7, Nakamura '284 discloses a display comprising:

[0161]) to display an image; and

a display device of a matrix type having a resolution of 100 to 300 ppi (Paragraph

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at least one anti-reflection layer (Figure 1 element 4) on a side of a front surface of the display device (Paragraph [0174]).

Nakamura '284 fails to disclose the average specular reflectivity, the color quality of reflected light, and the flatness of the surface on which the anti-reflection layer is placed.

Nakamura '929, however, teaches an anti-reflection layer having an average specular reflectivity of 0.5% or less at an incident angle of 5 degrees in a wavelength range of 450 to 650 nm

(Paragraph [0008]) and light incident at 5 degrees in a wavelength range of 380 to 780 nm reflected with color falling within the proposed ranges of the CIE 1976 L\*a\*b\* color space.

(Paragraph [0018]). Shimodaira teaches a smooth base layer according to the proposed JIS standard as optimal for attaching optical layers (Column 11 lines 25-50).

It would have been obvious to one of ordinary skill in the art at the time the invention was made for the anti-reflection layer disclosed by Nakamura'284 to have the proposed reflectivity characteristics and base layer characteristics. One would have been motivated to form the anti-reflection layer to have low reflectivity and lack of coloration to reduce the effect of external light on the displayed image (Nakamura '929: Column 4 lines 51-65, Column 5 lines 10-25). One would have been motivated to form the anti-reflection layer on a layer having the proposed smoothness standard to benefit from a surface for easily and reliably attaching an optical layer, such as an anti-reflection layer (Shimodaira: Column 11 lines 25-51).

Regarding claims 10 and 11, all limitations refer to only a recitation of the intended use of the claimed invention.

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Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura '284 in view of Nakamura '929 and Shimodaira and in further view of Satoh et al. (U.S. Patent No. 5,847,795).

Nakamura 284 fails to disclose a protective panel. Satoh, however, teaches a protective panel as proposed (Figure 1 element 4) attached to the front surface of the display in a manner that puts a distance between the protective panel and the front surface of the display device to avoid contact, wherein the anti-reflection layer is placed on each side of the protective panel (Figures 3 and 4).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to attach a protective panel as proposed. One would have been motivated to attach such a protective panel as a means of protecting the surface of the display while improving the displayed image by reducing surface reflections (Satoh: abstract).

Claims 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura '284 in view of Nakamura '929 and Shimodaira and in further view of Yamashita et al. (U.S. Patent No. 7,206,005 "Yamashita").

Nakamura '284 fails to disclose the proposed screen size or the display as a monochrome display. Yamashita, however, teaches a monochrome display having a 20" screen size as optimal for some applications, such as a medical display (Column 1 lines 11-45).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to form the display to have a size within the proposed range and to be monochrome.

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One would have been motivated to form such a display as an optimization for medical use

according to the teachings of Yamashita.

Allowable Subject Matter

Claim 5 is objected to as being dependent upon a rejected base claim, but would be

allowable if rewritten in independent form including all of the limitations of the base claim and

any intervening claims.

Claims 12 and 13 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 5, the prior art fails to disclose or suggest the hard coat and three sub-

layers of an anti-reflection film having the proposed refractive index properties.

Regarding claims 12 and 13, the prior art fails to disclose or suggest the function of

measuring surface reflection when power is off and luminance when power is on, judging

measurement data, displaying and saving results, and correcting gradation data based on the

measurement data.

| Contact Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michael H. Caley whose telephone number is (571) 272-2286.

The examiner can normally be reached on M-F 8:30 a.m. - 5:00 p.m..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michael H. Caley Primary Examiner

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